

HIGH-QUALITY STYLE DIGITAL PIANO

OWNERS MANUAL



Princeton

HP-3

WELCOME!

All users:

At first, we feel grateful for you purchase Princeton digital pianos. Our digital pianos are high-tech professional instruments, which are easy to operate. They are good instruments for musicians and new beginners. In order to learn the functions of the digital pianos, please read the manual carefully.

● Caution:

Warning: keep dry where the piano is.

Warning: high voltage is dangerous, do not open the cover of the piano by yourself, only specialist can maintain the piano.

Attention: to avoid getting electric shock, make sure the plug be connected with the jack well.

● Important safety information:

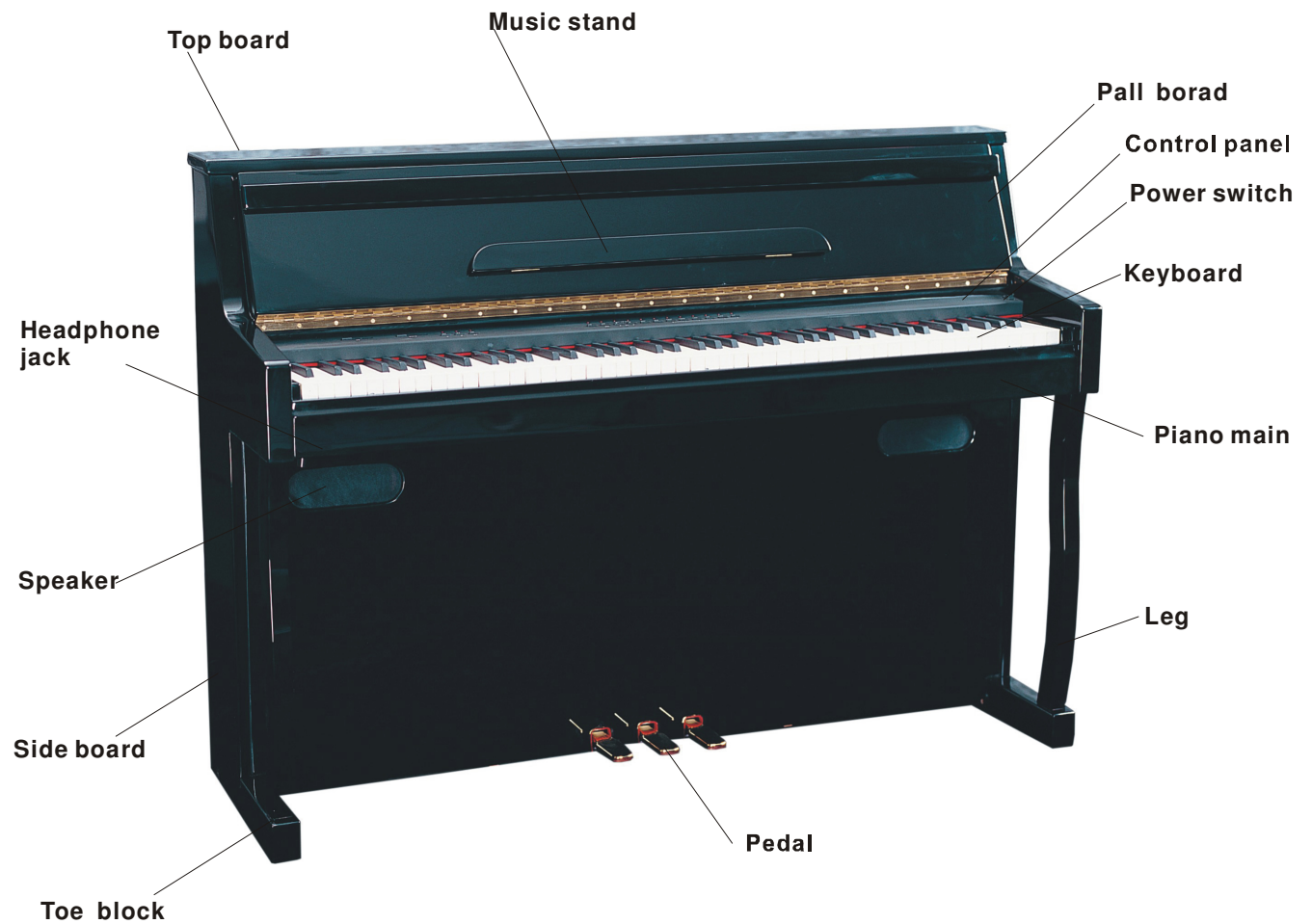
Before using, please read it carefully:

1. Use AC110V power, please use regulator when voltage is not stable.
2. Do not touch the power supply by waterish hand.
3. Do not weigh on and bent the power line.
4. Please pull out the plug when thundering.
5. Please turn off the power when not in use.
6. Avoid the water going into the keyboard and the piano body.
7. Do not put the container with liquid on the piano body, such as flower vase, medicine, tank etc.
8. If there is water in the keyboard and piano body, please cut off the power at once, and contact with the seller or service support consultant.
9. Components of piano body are precise , do not disconnect it by yourself.
10. Avoid dust going into the keyboard .
11. Keep the piano clear from TV, radio and strong electromagnetism place.
12. Keep The piano where is horizontal and stable
13. Please clean the piano with dry and soft cloth.
14. Operate the piano according to the operation manual, any non-standard operation would influence the effect of the piano.
15. The pianos should be put in the ventilate place, avoid placing the piano near any heat appliance.

CATALOGUE

(1)Name of each portion	3
(2)Main character	4
(3)Function sketch map	4
(4)Name and function of the components	5
(5)Play (basic play)	7
(6)Use of headphone and microphone	7
(7) Effect of pedal	7
(8) Play the demonstration songs	8
(9) Practice songs	8
(10) Function of double timbre	12
(11) Function of metronome	12
(12) Selection of the touch sensitive	13
(13) Function of recording	14
(14) Transpose	15
(15) Set the of tuning curve	15
(16) Adjust the tone	16
(17) What is MIDI	17
(18) Sheet of practice songs	18
(19) Modulator	20
(20) Technic specification	20

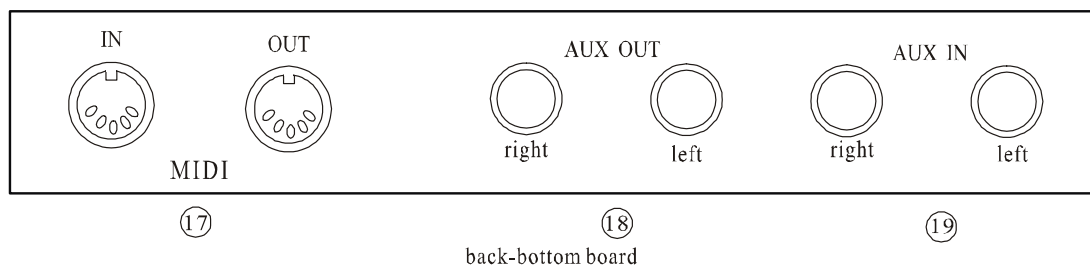
(1) NAME OF EACH PORTION

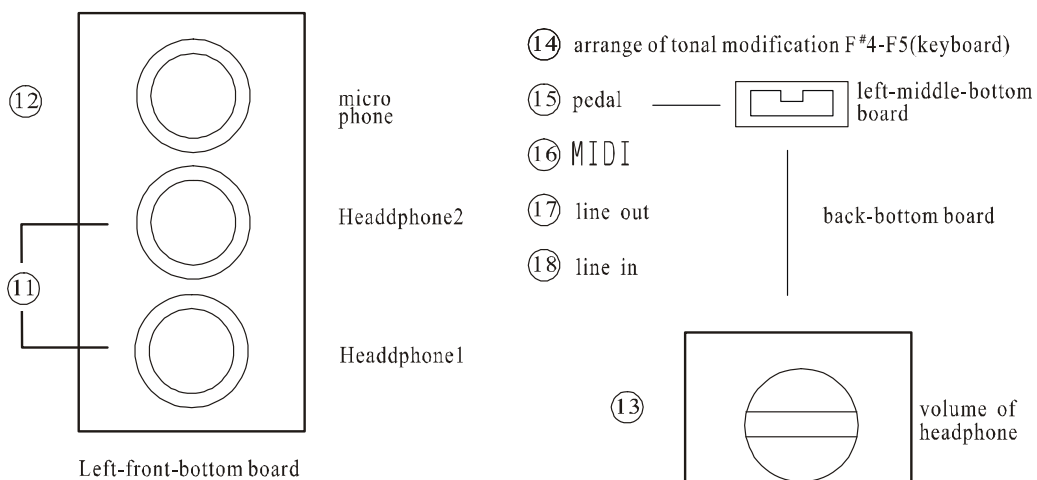
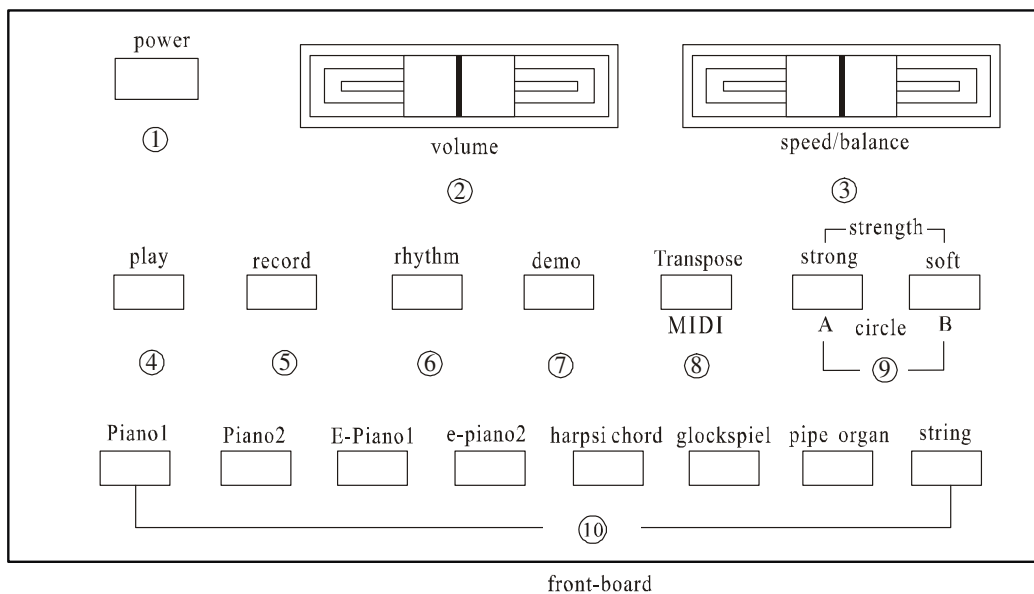


(2) MAIN CHARACTER

- PCM sound source
- Demonstration sounds
8 demonstration sounds and 32 practice sounds built in this model.
- Function of mixing sound
Play with two timbres at the same time
- Function of metronome
Beat with the speed set
- Tone modification
The note can fit for the singer without change your fingers
- Play/record
Sound can be played and recorded while you playing the piano
- Touch sensitive
- MIDI interface
MIDI can be connected
- Function of headphone and microphone
Use the headphone while playing to avoid disturbing others
You can play and sing at the same time while using the microphone.

(3)FUNCTION SKETCH MAP





(4) NAME AND FUNCTION OF COMPONENTS

1. Switch of power

On/off

2.Master volume

It is used to adjust volume.

3.Speed/balance

For each function operation (volume balance for double timbre, change the speed, adjust the volume of rhythm)

4. Playback button

Playback the sound recorded

5. Record button

Record the sound played

6. Button of metronome

It is used to adjust rhythm.

7. Button of demonstration sound.

It is for demonstration songs and practice songs

8. Transpose/MIDI

It is used for tone modification, the curve of tuning and to set swing and MIDI.

9. Selection of touch sensitive

It is used to change touch sense of keyboard (3) and replay.

10. Button of timbre

A. It is used to change timbre.

B. Push down the 2 button at the same time, and play with double timbre at the same time.

11. Terminal of headphone

A. Loudspeaker was disconnected while the headphone is connected, you can only hear the sound from the headphone.

B. High volume for a long time is bad for your ears.

12. Terminal of microphone

You can play and sing at the same time while the microphone is connected.

13. Volume adjuster for microphone

To adjust the volume which coming into the microphone

14. Arrange of transpose

To set the keyboard arrange of transpose and swing keynote.

15. Terminal of pedal

Please connect the pedal with standard plug.

16. Terminal of MIDI.

Please refer to function of MIDI

17. Terminal of AUX input

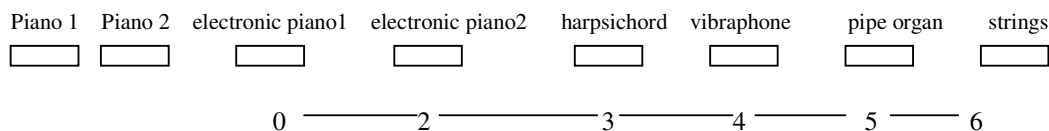
Terminal of the same of rhythm (switch of piano body main volume can't adjust the volume, so connected equipment that should adjust equipment with volume.

18. Terminal of AUX output

The same as the sound speaker makes, transmit the sound of piano to other machine to make sound (magnify, stereo acoustics). Main volume switch of the piano can adjust sound.

(5) PLAY (BASIC PLAY)

1. Instrument selection



- Pressing any one of the 8 buttons, corresponding instrument is selected and the light is on,

Name of instruments	Feature
Piano 1	Timbre of triangle piano
Piano 2	It is suitable to triangle piano of jazz and popular song.
Electronic piano1	Electronic piano timbre of electronics compound
Electronic piano2	Electronic piano timbre of lyric
Glockenspiel	A kind of striking instrument , sound like the clock.
Pipe organ	Instruct you how to use the timbre of pipe organ
Strings	Ensemble of string play.

2. Adjust volume

To adjust the moderate volume.

3. Play

Play by the keyboard

(6) USE OF HEADPHONE AND MICROPHONE

- Connect the headphone
- The inner loudspeaker is disconnected and the sound comes out from the headphone
- Connect the microphone and you can play the sing at the same time.

(7) EFFECT OF PEDAL

1. Sustain pedal

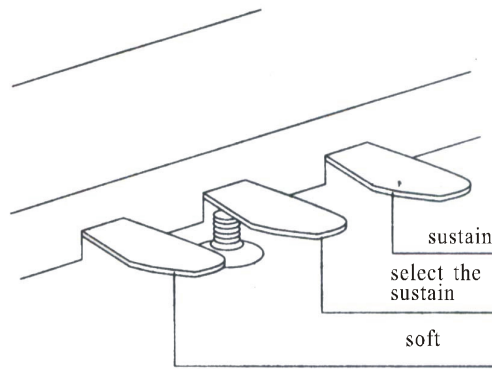
It is always used during the play, step on the pedal to make the notes have aftertaste.

2. Soft pedal

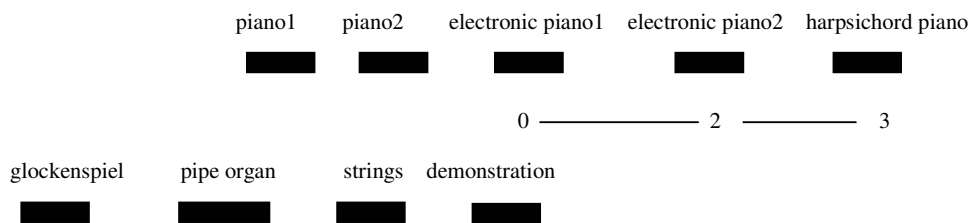
Step the soft pedal to make the notes soft, and the volume become lower and lower.

3. Select sustain pedal

It is only used to make the sound you want have aftertaste. During the play, step the pedal before your finger leave the key to make the note have aftertaste.



(8) PLAY THE DEMONSTRATION SONGS



1. Start the demonstration play

Press the button of demonstration-the demonstration light is on, all instrument lights flashes.

2. Select the song

Press the instrument button ---- the light flash, the rest instrument light turned off, the corresponding timbre is stored and played

If you don't select songs, about 2 seconds later, piano 1 is played automatically.

3. Change the song

Press the button of instrument ---the light flash, the timbre is stored and the played.

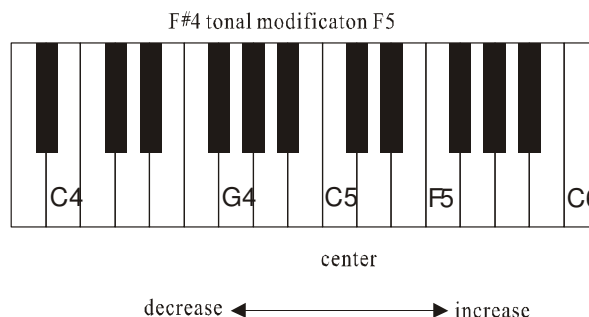
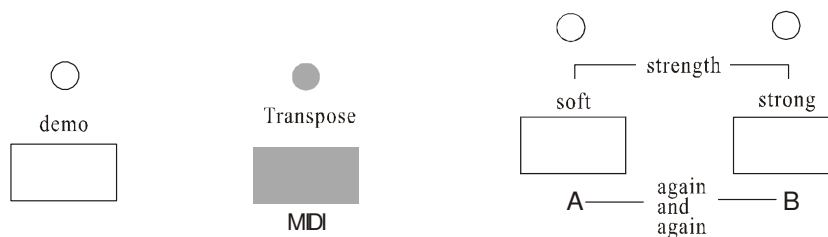
4. Stop the play of demonstration songs

Press the button of demonstration- --the light is off and the demonstration play stop.

- After playing the song that is stored , next stored song is played automatically.
- Demonstration play is used to introduce instrument, some songs are not played completely.

(9) PRACTICE SONGS

27 songs are stored in the piano. Press the button of demonstration while pressing the appointed key in the following picture to start the play of the piano song.



Number of the song

Note: C0 C1 C2 C3 C4 are arranged according to the modulator on page

Name of the songs

No.	Name of song	No.	Name of song	No.	Name of song
1	Hua Li dance music	12	Moonlight	23	Dance G long tone
2	Illusion music	13	Impromptu 2 of 90	24	Dream of love the3rd
3	Hero music	14	Turkey march (Mozart)	25	Turkey march (Beethoven)
4	Raindrop prelude music	15	Walking at the old city	26	Pretty girl with flax hair
5	A letter dog waltz	16	The first movement of moonlight	27	Piano play the 15th
6	Fantasia impromptu music	17	Dream	28	Impromptu 30 of 90
7	Exercise separate music	18	Piano play 20#	29	Waltz the 15 th
8	Banter music	19	Children's feelings	30	Miserable the second movement
9	Army Boland dance	20	For Elysea	31	Field of children
10	Prelude 7 #	21	Happy time	32	Army march
11	Song of spring	22	Arab song 1#		

Some songs are shorter than original songs in the table.

1. Start the play of the practicing song.

Press the button of demonstration while pressing the appointed the keyboard (A1-D4) to start the play of the selected song.

The demonstration light is on and 32 songs begin to be played one by one from the selected song. Besides, you can select other songs during the play.

---The indicator display the song number while pressing the button.

The piano play the 32 songs by turns from the pointed one again and again.

In addition, songs can be reselected during the play.

- you can change the speed during the play.
- you can change the rhythm during the play.
- you can change the timbre during the play.
- In the case of using double timbre, the timbre button that is pressed firstly is right track, the later pressed button is left track..

2. Stop the play of piano songs

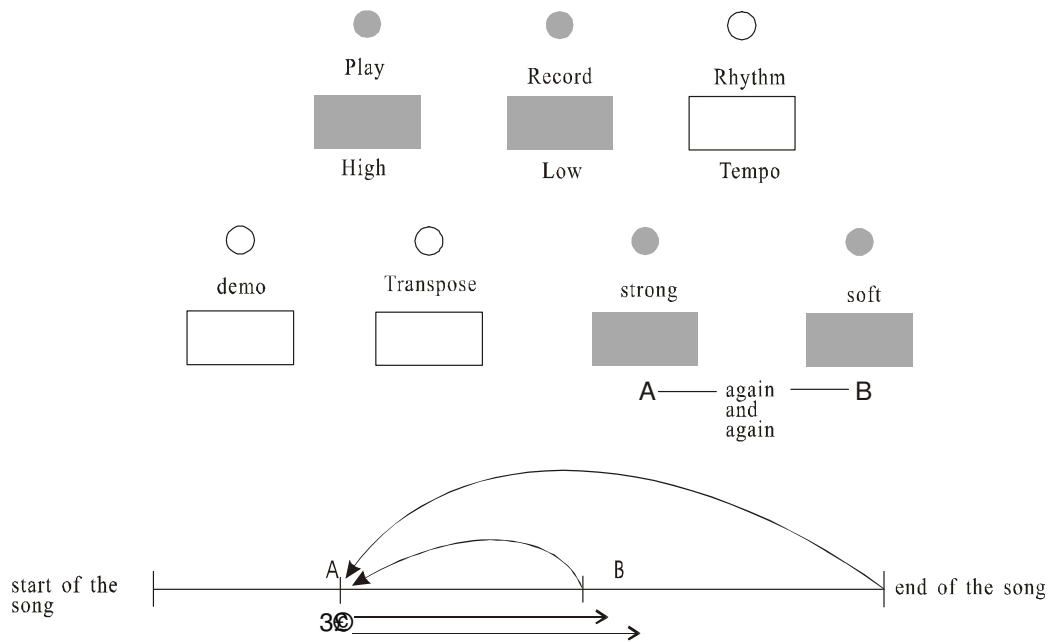
Press the button of demonstration again-the light turns off, the play stops.

Listen to the cantus and the accompaniment

Press the demonstration button and select the song, the record light and play light will turn on at the same time.

- A. Press the play button, the record light turns off and the play light turns on. you can listen to the cantus and play the accompaniment.
- B. Press the record button, the play light turns on and the record light turns off. you can listen to the accompaniment and play the cantus.
- C. Come back to the performance of the practice songs by double hand.

Press the record button and the play button at the same time, the corresponding lights turn on, you can play in the bass and treble with the practice song.



4. Listen to some part of the song again and again.

You can select one part of the song to listen and practice again and again, the way is to firstly name A point (start point) and B point (turning point).

A. Listen to your favorable song,

Begin to play the practice song, press A button during the play and the A light turns on.

B. Set A point (start point)

While A light is on, press the A button and set A point (start point), and the set of B point (turning point) is in waiting state. A light is on, B light flashes. Now press the A button again, and the play begin from the A point.

C. Play the song again and again from A point to B point

Press B button and set B point (turning point) while A light is on and B light is twinkling .the play start from A point to B point again and again. The A light and B light are both on.

D. Stop the play in the A-B part

While the playing from A to B, press the B button to change the piano to play one song again and again B light turns off.

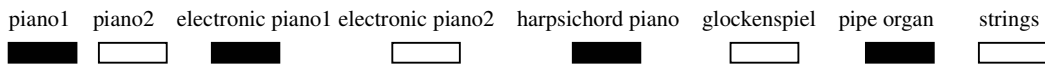
E. Play the 32 songs again and again.

When one song is being played again and again, press the B button to change the piano to play all the songs again and again. A light turns off.

- While B point (turning point) is in waiting state (A light is on, B light is twinkling), if the last song is finished, the piano play the song from A point to the point where the song is finished again and again. A light and B light are both on.
- A and B points can only be set during the performance.
- The piano can not record while playing the song again and again.

(10) FUNCTION OF DOUBLE TIMBRES

Use this function, the piano can make two timbres at the same time.



1. Make double timbres

Press two buttons of timbre together, two corresponding lights turns on.

2. Adjust volume balance of the double timbres.

A. Hold down two timbres button, and two lights flash.

B. Move the speed/balance adjuster to change the balance of the volume.

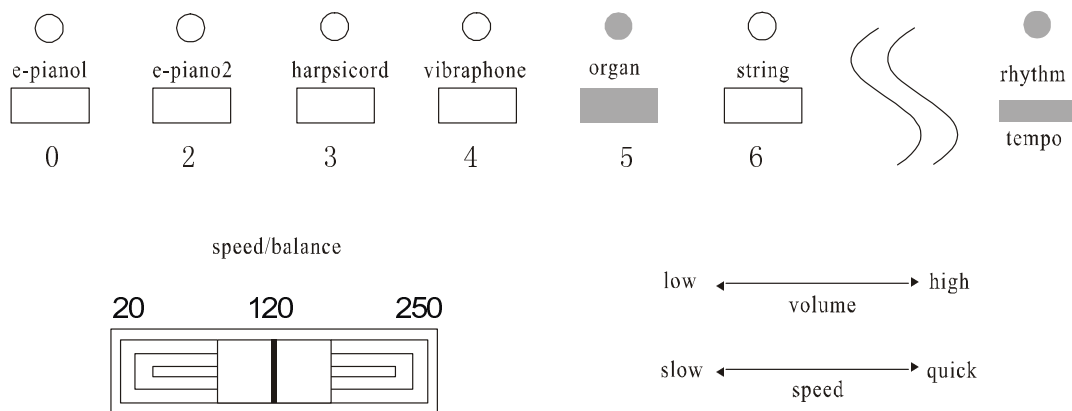
Move rightwards to increase the volume of the right timbre

Move leftwards to increase the volume of the left timbre

3. Stop the setting of double timbre balance.

Press any timbre button which flashes, two timbre button turn on from flashing. The timbre combine set will be stored in the piano in the case of the power is on.

(11) FUNCTION OF METRONOME



1. Use the metronome. Press the button of metronome—the light turns on.

2. Change the tempo

A. Press the button of metronome and the corresponding button of timbre together

B. Play the tempo of timbre selected and there are 5 kinds of tempo. 0 beat tempo, 2 beat tempo, 3 beat tempo, 4 beat tempo, 5 beat tempo and 6 beat tempo.

C. When the power is connected, the tempo is 4 beat tempo

3. Change the speed.

Move the speed/balance adjuster, the speed turns down when it move leftwards and turns up when it move rightwards.

4. Change the volume

Hold down the metronome button, and the light begin to flash, move the speed/balance adjuster to change the volume.

- When power is on, the volume is the initial volume set by the factory
- Before moving the adjuster, the volume is the last volume set.

Press the metronome button-----the light turns off, the function stops

5. Stop setting the volume

Press the metronome button, the light turns on from flashing. The speed/balance adjuster is in the state of adjusting the speed.

6. Stop the metronome function

Press the metronome button again and the light turns off.

7. In order to set the exact speed, you should go into the input state firstly.

A. Hold down the metronome button and press the B5 (starting) button, the light flashes quickly.

B. Input the number

Input the speed number with the key from C6-A6

For example: press 1-C#6,3-D#6,4-E6 one by one, then it means the speed is 134

C. Stop the setting

Press the input key (B6), the setting stops, the light turns on, and the metronome works according to the speed set.

(12) SELECT THE FUNCTION OF TOUCH SENSITIVE

3 touch sensitive

Standard: sound made by the standard piano touch.

Strong: even touching the key softly can make strong sound.

Soft: opposite to the strong key, only powerful touch can make the sound strong. It is the best position to practice your fingering.

Change the touch sensitive key.

A. Select the strong touch. Press the strong key -----the light turns on.

B. Select the soft touch. Press the soft key ----- the light turns on.

D. Select the standard touch. Press the button of which the light is on – the light turns off.

Relation between the light and the touch

Status	The light	
	Strong	Soft
Standard	Off	Off
Soft	On	Off
Strong	Off	On

- Change the touch sensitive , is to change the relation between the strength and the acoustics.
- Structure of the keyboard is not changed.

(13) FUNCTION OF RECORDING

1. Record.

A. Get ready to record. Press the record button and the light twinkles.

B. Begin to record

a. Start the recording (no time record)

the recording start when you play (press the keyboard 、 step the pedal).

b. Start the recording (with time record)

Press the metronome button, and the recording start after the time engaged, the light turns on.

c. Stop the recording

Press the record button again. The record light turns off .

- Memory capacity --about 5000 tones.

Content of record includes pedal operation, change of timbre and the pause etc. example: when the amount of pedal operation record increase, the amount of record that is played through the keyboard decrease.

- Little recording room

The record light start to twinkle when the record room lack.

The record light is turned off and the record stops when the record amount exceed 5000 tones.

- Stop the recording

Press the record button again and the light is turned off.

- Use the metronome

Before the recording, operate the metronome, and it will be recorded.

- Change the tempo

Tempo can not be changed during the recording.

- Change the speed

Speed can not be changed during the recording.

2. Playback

A. Start the playback

Press the play button and the recorded song begin to play, the light is turned on

B. Stop the playback

After the song is finished, the playback stop and the light turn off.

C. Stop the playback in the midway

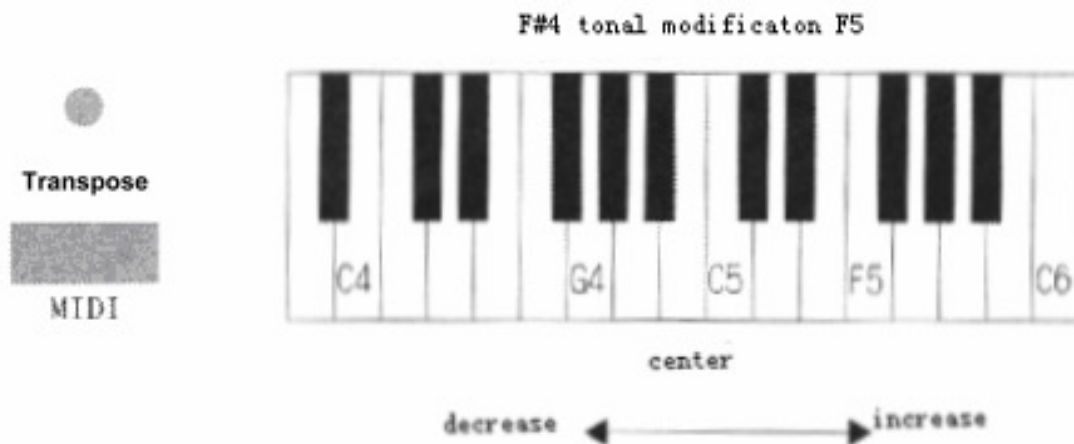
(14) TRANPOSE

1. Transpose

Hold down the button of transpose and press the F#4--F5 key, the light turns on after the transpose.

2. Back to the standard tone

Press the button of transpose, the light turns off.



(15) SET THE OF TUNING CURVE

In addition, about electron piano and electron synthesizer, tuning is adjusted by using 12 average tune. The piano is set scope of two tuning.

1. Set the tuning of 12 average tune.

Hold down the button of transpose and press the organ button

2. Back to the tuning of piano

Hold down button of transpose and press the organ button

- While you press the button, the organ light indicates the content set
- The relation between the light and the tuning

Light (on)	Tuning of piano
Light (off)	12 average tuning

- When the power is on ,it is the tuning of piano

(16) ADJUST THE TONE

Adjust tone with other instruments.

You can collate the sound while press the key and you can also collate by inputting the center A frequency.

1.collate the sound while listening

A. Get ready

Hold down the button of transpose, Then press the button of demonstration, the lights of transpose and demonstration flash. the strong button of strength and the soft button of strength turn on.

B. Collate the sound

Press the soft key while increasing the tone

Press the strong key while decreasing the tone

Collate the tone while pressing the key

C. Come back

Press the soft key and the strong key at the same time, the soft key and the strong key turn on.

D. Quit from the adjusting of the tone

Press the button of transpose and the light turn off.

2.input the number to change the tone.

A. Get ready to input the number

Hold down the button of transpose and demonstration, and press the initial key(B5), the light of transpose and demonstration flash quickly.

B. Input the number

Input the frequency number value (A3 in the center)

For example: while input 442HZ,press the following key:

4-E6

4-E6

2-D6

C. Stop the setting

Press the input key (B6), the light of transpose turn off (this light is on while the transpose is going),the light of demonstration turns off.

D. Quit from the setting

Press the button of transpose, the light of transpose turn off (this light is on while the transpose is going), the light of demonstration turns off. The frequency of A3 is 440HZ.

- The input number should be 427—453, the other number is invalid.
- The frequency of A3 is 440HZ when the power is on

(17) MIDI

MIDI (musical instrument digital interface) is the world specification, which is confirmed by main instrument manufacture in the world. MIDI transmits play data with digital data by cable. Any electronic instrument with MIDI interface can exchange data.

Table of MIDI implementation

Function	Send signal	Receive signal	Remark
Basic power is on	1	1-16	
Track set channel	1-16	1-16	
Model power is on	3	1	
Signal	×	OMNI ON/OFF.POLY	
Replace	*****	*****	
Note	※1 15-113	0-27	
No. range	*****	15-113	
Speed note ON	○ 9n H v=1-27	○ 9n H v=1-27	
Note OFF	× 9n H 8n H v=0	×	
After outer key	×	×	
touching outer track	×	×	
Move tone	×	×	
Control 07(07H)	×	○	Volume
11(0BH)	×	○	Show
Change			
64(40H)	○	○	Tenuto pedal
66(42H)	○	○	Soft pedal
67(43H)	○	○	
			Reposition auto
121(97H)	×	○	
Program	○ 0-127	○ 0,1,4,5,6,11,19,48	
Transfer: set scope	*****		
OR circuit	×	×	
Song and string	×	×	
Rhythm select song	×	×	
Tune	×	×	

Real time signal	×	×	
Synchronization signal	×	×	
Other piano ON/OFF	×	O	
All notes ON/OFF	×	O : 123-127	
Sensor	O	O	
Reposition	×	×	
For reference	※ 1 change scope by switch		

Model 1: ON, complex tone Model 2: ON, single O : Yes

Model 3: OFF, complex tone Model 4: OFF, single × : No

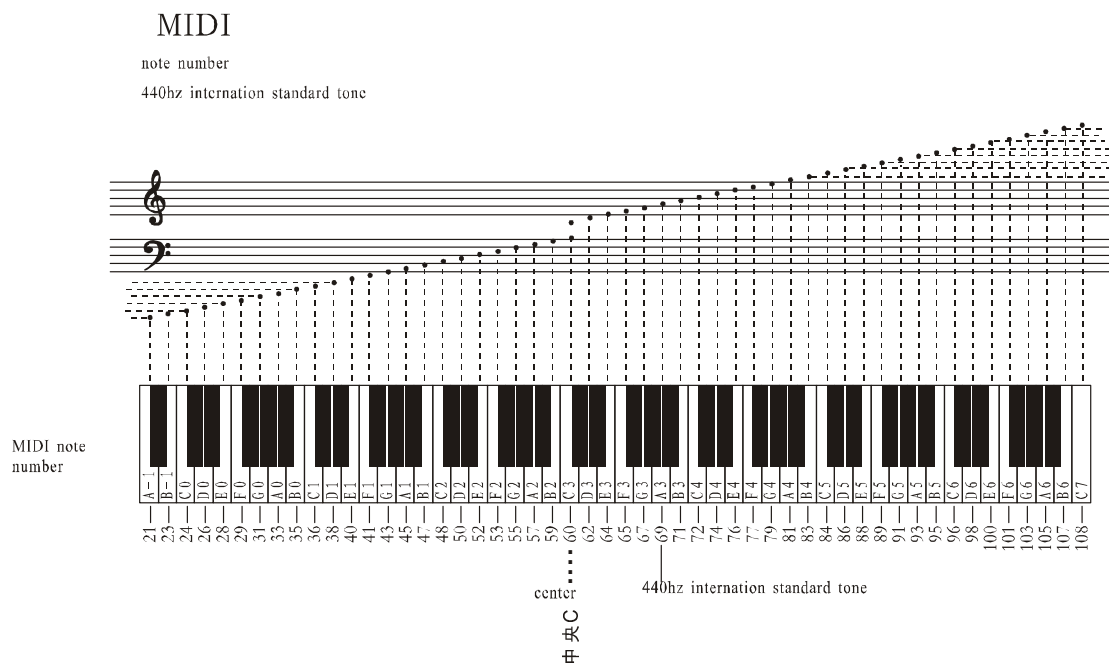
(18) SHEET OF PRACTICING SONGS AND DEMONSTRATION

SONGS

No.	Name of song	Musician	Timbre name	Time
1	Waltz No. 1 change E long tone (Hua Li dance)	Chopin	Piano 1	3:40
2	Illusion the 2 nd E long tone 2 of 9	Chopin	Piano 1	4:40
3	Poland dance the 6 th A long tone 53 (Hero)	Chopin	Piano 1	3:10
4	Prelude 15 th D long tone 28-15(rain drop)	Chopin	Piano 1	4:37
5	Waltz 6 th D long tone 64-1 (a letter dog)	Chopin	Piano 1	1:44
6	Impromptu 4 th #C short tone 66 (dream impromptu)	Chopin	Piano 1	3:45
7	Exercise 3 rd E long tone 10-3	Chopin	Piano 1	4:14
8	Banter 2 nd long tone 31	Chopin	Piano 1	5:15
9	Poland dance 3 rd A long tone 40-1(Army)	Chopin	Piano 1	5:16
10	Prelude 7 th A long tone 28-7	Chopin	Piano 1	0:05
11	Song of spring A long tone-muteness 30 th 62-5		Piano 1	3:14
12	Light of moon	Mendelssohn	Piano 1	4:11
13	Impromptu E tone 90 (D899) 2		Piano 1	4:18
14	Piano sonata 11 th A long tone KV331-the 3 rd chapter		Piano 1	3:32
15			Piano 1	5:20
16	Piano the 14 th #C short tone 27-2(moon light) 1 st chapter		Piano 1	6:10
17	Dream		Piano 1	1:32

18	Piano sonata the 20 th G long tone 49-2 the 1 st chapter		Piano 1	4:37
19	(Children scene) works 15	schumann	Piano 1	2:35
20	For Elysea		Piano 1	2:55
21			Piano 1	1:55
22	Arab No. 1		Piano 1	1:45
23	Munuet G long tone		Piano 1	2:06
24	Dream of lover the 3 rd A long tone S541-3		Piano 1	3:37
25	Turkey march music		Piano 1	2:15
26	Pretty girl with flax hair—prelude the 1 st book		Piano 1	2:04
27	Piano sonata 15 th C tone KV545 1 ST chapter		Piano 1	4:37
28	Impromptu G tone 90-3		Piano 1	4:35
29	Waltz 15 th 93-5		Piano 1	1:38
30			Piano 1	4:59
31	Field of children		Piano 1	2:38
32	Army march D long tone 51 (D733)-1		Piano 1	4:55
	Introduce play of timbre			
1	Hua Li dance music	Chopin	Piano 1	1:30
2	Arab No. 1		Piano 1	1:20
3	Missing for ever		Piano 1	1:05
4	Humorous music		Piano 2	1:20
5	Symphony		Classic piano	0:50
6	Jazz		glockenspiel	0:50
7	Fugue music		Pipe organ	1:20
8	Brilliance of grassland		String	0:55

(19) MODULATOR



(20) TECHNICAL SPECIFICATION

Key	88 key
Instrument	Piano1, piano2, e-piano1, e-piano2, harpsichord, glockenspiel, organ, string
Function	Double timbre, setting of touch sensitive, transpose, record, demo songs, metronome, adjust the tone, 7 swing, set the tuning curve, MIDI
Control	Power switch, volume control
Select the pedal	Soft (left), sustain selection(middle), sustain(right)
Terminal	headphone×2 , AUX IN , AUX OUT, MIDI IN , MIDI OUT
Loudspeaker	18cm×2
Power	<80W
Power supply	AC220V